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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/018,589	11/22/2002	Hans Zschintzsch	50029-00001	8347

7590 08/04/2005

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EXAMINER

RAMOS FELICIANO, ELISEO

ART UNIT	PAPER NUMBER
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2687

DATE MAILED: 08/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/018,589

**Applicant(s)**

ZSCHINTZSCH, HANS

**Examiner**

Eliseo Ramos-Feliciano

**Art Unit**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 04 April 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 12-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 12-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Previous Claim Objections / Specification*

1. Previous objection to the claims and the specification is withdrawn in view of Applicant's amendment filed April 4, 2005 including the cancellation of claims 1-11.

### *Claim Objections*

2. **Claim 17** is objected to because of the following informalities: "wherein the accounting methods" should be changed to --wherein accounting methods-- given that there is no previous reference to accounting methods, in order to improve clarity and precision of the language used. Appropriate correction is required.

### *Claim Rejections - 35 USC § 103*

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claims 12-14, 18-19, 21/18 and 21/19/18** are rejected under 35 U.S.C. 103(a) as being unpatentable over Mukherjee et al. (US Patent Number 6,289,223).

Regarding **claim 12**, Mukherjee et al. discloses a process of allowing direct access for individual subscribers to a cellular phone network (Figure 1) with existing cell broadcast services (column 2, lines 1-4, 10-13 & 32-36; column 1, line 48; title), the process comprising:

equipping the cellular phones (12) of the subscribers (users) to exchange point-to-point short messages (column 2, line 45; column 3, line 65; column 4, line 60) with a short-message

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center (SMS-IWMSC 16) over the cellular phone network (10 - Figure 1), (see column 3, lines 5-14);

forwarding short messages declared cell broadcast messages (“an originating mobile unit may then transmit an SMS message to a plurality of destination units by transmitting an SMS message addressed to a predefined usergroup MSISDN” – abstract; column 2, lines 10-21 & 24-26; column 4, lines 3-6; column 7, lines 4-6) to a cell broadcast center (SMS-GMSC 20), (see column 3, lines 15-20);

accepting the point-to-point short messages from a coupling instance (SC 18) connected to the short-message center (SMS-IWMSC 16); (see column 3, lines 14-16);

doing the necessary tests (determines destination / subscriber status), adjustments (parses the messages) and conversions (deciphers the messages) of the messages in the coupling instance (SC 18) (see column 3, lines 20-25; column 4, line 59 to column 5, line 5);

filtering the subscribers (compare / select multipoint usergroup) (see column 3, lines 20-25; column 4, line 59 to column 5, line 5); and

forwarding the messages to the cell broadcast center (SMS-GMSC 20) by means of a process that applies to the cell broadcast center (see column 3, lines 17-20). (Forwarding, as taught by Mukherjee et al., is in fact a process. Thus the limitation “by means of a process that applies to the cell broadcast center” is inherent, since such process is needed for the system to operate, and it has to be applicable to the cell broadcast center because it is the one receiving the forwarded messages).

However, Mukherjee et al. fails particularly disclose that the network is a *digital* cellular phone network, as claimed.

In the background of the invention, Mukherjee et al. teaches several different digital-based telecommunications systems, such as GSM and PCS, that provide non-speech services to mobile subscribers, such as short message services (see column 1, lines 30-40). Consequently, Mukherjee et al. suggests to apply their improved SMS service in a digital cellular phone network, such as GSM.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to implement Mukherjee et al.'s short message method in a digital cellular phone network because digital-based standards, like GSM, are widely used; hence, an increased number of users can benefit from the service.

Regarding **claim 13**, Mukherjee et al. discloses everything claimed as applied above (see *claim 12*). In addition, Mukherjee et al. discloses wherein the parameters (group identifier or usergroup MSISDN) necessary for using cell broadcast are given by the subscriber (user) in the point-to-point short message (the user enters the group identifier when initiating the SMS transmission – column 2, lines 13-21 & 24-27; column 3, lines 55-56).

Regarding **claim 14**, Mukherjee et al. discloses everything claimed as applied above (see *claim 12*). In addition, Mukherjee et al. discloses wherein the parameters necessary for using cell broadcast are predetermined (beforehand / prior arrangements – column 4, lines 49-53) and are added to the broadcast message by the coupling instance (SC 18) (column 3, lines 20-25; column 4, line 67 to column 5, line 2).

Regarding **claim 18**, Mukherjee et al. discloses a device for allowing direct access for individual subscribers to a cellular phone network (Figure 1) with existing cell broadcast services (column 2, lines 1-4, 10-13 & 32-36; column 1, line 48; title), wherein the cellular phones (12) of

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the subscribers (users) are equipped to exchange point-to-point short messages (column 2, line 45; column 3, line 65; column 4, line 60) with a short-message center (SMS-IWMSC 16) over the cellular phone network (10 - Figure 1), (see column 3, lines 5-14), whereby short messages declared cell broadcast messages (“an originating mobile unit may then transmit an SMS message to a plurality of destination units by transmitting an SMS message addressed to a predefined usergroup MSISDN” – abstract; column 2, lines 10-21 & 24-26; column 4, lines 3-6; column 7, lines 4-6) are forwarded to a cell broadcast center (SMS-GMSC 20), (see column 3, lines 15-20), the device comprising:

a coupling instance (SC 18) connected to the short message center (SMS-IWMSC 16), which accepts (column 3, lines 14-16; see also Figure 1) point-to-point short messages (column 2, line 45; column 3, line 65; column 4, line 60); and

means of doing (inherent) the necessary tests (for determining destination and subscriber status), adjustments (for parsing the messages) and conversions (for deciphering the messages) of the messages and an authentication component (for determining origination authentication) and/or filter component (for comparing and selecting multipoint usergroup) (see column 3, lines 20-25; column 4, line 59 to column 5, line 5) (“means of doing” and “component” are inherent from the respective explained functions);

wherein the coupling instance (SC 18) is connected to the cell broadcast center (SMS-GMSC 20) to which the processed messages are forwarded (see column 3, lines 17-20).

However, Mukherjee et al. fails particularly disclose that the network is a *digital* cellular phone network, as claimed.

In the background of the invention, Mukherjee et al. teaches several different digital-based telecommunications systems, such as GSM and PCS, that provide non-speech services to mobile subscribers, such as short message services (see column 1, lines 30-40). Consequently, Mukherjee et al. suggests to apply their improved SMS service in a digital cellular phone network, such as GSM.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to implement Mukherjee et al.'s short message method in a digital cellular phone network because digital-based standards, like GSM, are widely used; hence, an increased number of users can benefit from the service.

Regarding **claim 19**, Mukherjee et al. discloses everything claimed as applied above (see *claim 18*). In addition, Mukherjee et al. discloses wherein the point-to-point short messages contain parameters (group identifier or usergroup MSISDN) for defining the broadcast area (see column 2, lines 13-21 & 24-27; column 3, lines 55-56) and, if necessary, other parameters (for example, origination related data, etc. – column 3, lines 21-24).

Regarding **claim 21/18 and 21/19/18**, Mukherjee et al. discloses everything claimed as applied above (see *claim 18-19*). In addition, Mukherjee et al. discloses wherein wherein a filter component (for comparing and selecting multipoint usergroup) is provided in the coupling instance (SC 18) (see column 3, lines 20-25; column 4, line 59 to column 5, line 5) (“component” is inherent from the respective explained functions).

5. **Claims 15/12, 15/13/12, and 15/14/12** are rejected under 35 U.S.C. 103(a) as being unpatentable over Mukherjee et al. (US Patent Number 6,289,223) in view of Sikand et al. (US Patent Number 5,515,421).

Regarding **claims 15/12, 15/13/12, and 15/14/12**, Mukherjee et al. discloses everything claimed as applied above (see *claims 12-14*). However, Mukherjee et al. fails to specifically disclose that the area to which the broadcast message applies is determined by giving the dialing prefix, the postal code or the vehicle license number, as claimed.

Sikand et al. discloses a message broadcasting method wherein callers (area to which the broadcast message applies) are identified according to a one or more common defined characteristics, such as, area code (dialing prefix), zip code (postal code), or any other caller characteristics or codes (for example, vehicle license number) (see column 1, lines 50-54 & 61-67). For example, if the broadcast message is local weather the caller identification would be the zip code (postal code) (column 2, lines 1-3, and column 3, lines 1-5).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to determine the area to which the broadcast message applies by using a dialing prefix, a postal code or a vehicle license number, because the information can be, for example, geographically dependent, such as local weather, in which case the information is pertinent for a particular zip code group, as taught by Sikand et al.

6. **Claims 16/12, 16/13/12, 16/14/12, 17/12, 17/13/12, 17/14/12, 20/18, 20/19/18, 22/18 and 22/19/18** are rejected under 35 U.S.C. 103(a) as being unpatentable over Mukherjee et al. (US Patent Number 6,289,223) in view of Vedel (US Patent Number 5,974,308).

Regarding **claims 20/18, 20/19/18, 22/18 and 22/19/18**, Mukherjee et al. discloses everything claimed as applied above (see *claims 18-19*). However, Mukherjee et al. fails to specifically disclose an accounting instance / billing entity provided in the coupling instance, as claimed.



Vedel discloses message broadcasting apparatus wherein accounting instance / billing entity provided for the purpose of informing users a rate of charge (see abstract; column 3, lines 15-35 of Vedel). Since the coupling instance (SC 18 of Mukherjee et al.) performs most of the short-message service processing (column 3, lines 20-24; column 4, lines 53 and 67 to column 5, line 10, *inter alia*, of Mukherjee et al.), it would have been obvious to also perform the needed accounting / billing process since its location is not critical, as it can be seen from Vedel.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide Mukherjee et al.'s device with an accounting instance / billing entity provided in the coupling instance, because, first, it is needed for the purpose of selling the broadcast services, and, second, it can be used to inform users a rate of charge, as taught by Vedel.

Regarding **claims 16/12, 16/13/12, 16/14/12, 17/12, 17/13/12, and 17/14/12**, Mukherjee et al. discloses everything claimed as applied above (see *claims 12-14*). However, Mukherjee et al. fails to specifically disclose an accounting methods as claimed. However, provision of these accounting methods is obvious expedient in view of Vedel as explained for claims 20 and 22 above, explanation that is applied and incorporated herein by reference.

#### ***Response to Arguments***

7. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

#### ***Conclusion***

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8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

9. Any inquiry concerning this communication from the examiner should be directed to Eliseo Ramos-Feliciano whose telephone number is 571-272-7925. The examiner can normally be reached from 8:00 a.m. to 5:30 p.m. on 5-4/9 1st Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester G. Kincaid, can be reached on (571) 272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ERF/erf  
July 29, 2005

  
**ELISEO RAMOS-FELICIANO** 7/29/05  
**PATENT EXAMINER**